

GLOSSARY OF TERMS

402 Program (Highway Safety Program)- Program 402 funds may be used for non-construction ITS/CVO activities that support the selection and implementation of safety construction and traffic operational improvements.

AAMVAnet- (American Association of Motor Vehicle Administrators network) A computer network which will route information between participating State Agencies and carriers.

ABS- Antilock brake system

ANSI (American National Standards Institute)- The standards development organization involved with Commercial Vehicle Operations electronic data interchange transactions (EDI). This organization provides an infrastructure for defining and maintaining open EDI standards.

ASAP (Automated Safety Assessment Program)- Will collect data from motor carriers and determines the motor carrier's compliance with Federal Motor Carrier Safety Regulations.

ASAP MCDL (Automated Safety Assessment Program Motor Carrier Data Collection)- Will collect data from motor carriers and determines the motor carrier's compliance with Federal Motor Carrier Safety Regulations. This program will consist of menu-driven software that will be provided to eligible motor carriers which could then be downloaded to the Office of Motor Carriers for validation and analysis.

Aspen- A local roadside computer system used to collect inspection data which are then typically forwarded to SafetyNet.

ATA (American Trucking Associations)- A national trade association of the trucking industry. Its mission is to educate public officials about the trucking industry and to supply current, accurate information to ensure compliance with federal, state, and local laws.

Architecture- The overall structure and unifying design characteristics of a system.

AVALANCHE- A distributed system for managing safety data on both interstate and intrastate motor carriers and for the Federal and State offices to electronically exchange data on interstate carriers with MCMIS.

AVC- Automated Vehicle Classification

AVI- Automatic Vehicle Identification.

AVL (Automatic Vehicle Location)- A technology involving global positioning systems which will enable real-time identification of a vehicle's location relative to a map.

Awareness Seminars- A facilitated workshop/discussion group whose purpose is to identify training requirements for implementing the ITS/CVO program.

Bus- A motor vehicle consisting primarily of a transport device designed for carrying more than ten persons. Any motor vehicle designed, constructed, and or used for the transportation of passengers, including taxi cabs.

CAPRI- State Compliance Review

CAT (Carrier Automated Transactions)- This system will be one way for carriers to apply for and receive credentials electronically as well as file fuel tax returns. Currently, software is being developed and pilot tested.

Carrier Operations- An ITS/CVO Program Area which includes public sector programs and services designed to help manage the flow of commercial vehicles including travel information services and hazardous material incident response services. Private sector programs and services include global positioning systems, satellite technology integrated with computer-aided dispatch, and engine diagnostic systems.

CDL/DL- Commercial Driver's License/Driver's License.

CDLIS (Commercial Driver License Information System)- This system will provide a pointer to past performance records for commercial drivers.

Clearinghouse- Processes information received electronically from states to compute fees due/owed each jurisdiction and facilitates periodic funds transfers. For example, carriers may register with a "base state" for their International Registration Plan (IRP) and/or their International Fuel Tax Agreement (IFTA) and that base state would then interface with a clearinghouse to apportion fees owed from and due to other states.

CMAQ (Congestion Mitigation and Air Quality Improvement)- CVO traffic management activities and electronic screening, particularly in urban areas, would qualify for this funding.

COACH- A JHU/APL document providing CVISN pilot state agencies, motor carriers, and developers of CVISN Core Infrastructure systems with a comprehensive checklist of what is required to be compatible with CVISN operational concepts and architecture.

Comprehensive Skills Matrix- The skills matrix resulted from the awareness seminars as a document to be used for planning and executing a comprehensive ITS/CVO training program. The matrix identifies knowledge, skills, and competencies that enable an individual to perform a role in the implementation of ITS/CVO program activities.

Computer-Aided Dispatch- A system using digital mapping and optimization algorithms to determine the most direct route between origin and destination, or for a series of stops.

Credentials Administration- An ITS/CVO Program Area which includes programs and services designed to improve the desktide procedures and systems for managing motor carrier regulation. These include electronic application, purchasing, and issuance of credentials, automated tax reporting and filing, and interagency and interstate data exchange.

CVIEW (State Commercial Vehicle Information Exchange Window)- A system that some states have chosen to implement to collect information from the commercial safety, credentialing, and tax systems to formulate segments of the interstate carrier, vehicle, and driver snapshots and reports for exchange within the state (e.g., with roadside sites) and with the SAFER system.

CVIS (Commercial Vehicle Information System)- An information system being used to determine the feasibility of linking safety fitness to vehicle registration.

CVISN (Commercial Vehicle Information Systems and Networks)- CVISN is the collection of state, federal and private sector information systems and communications networks that support commercial vehicle operations (CVO). Many improvement initiatives are currently underway to develop new systems and upgrade existing systems to add new capabilities and allow electronic exchange of information using open interface standards. This will enable delivery of new electronic services to states and carriers in the broad areas of safety, credentials, electronic clearance, and improved carrier operations.

CVO (Commercial Vehicle Operations)- Includes all the operations associated with moving goods and passengers via commercial vehicles over the North American highway system and the activities necessary to regulate these operations.

CVSA- (Commercial Vehicle Safety Alliance) A non-profit organization of federal, state, and provincial government agencies and representatives from industry in the United States, Canada, and Mexico dedicated to improving commercial vehicle safety. The Alliance seeks to bring together state/provincial officials with industry interest and federal governments in a unique discussion and problem solving interchange.

DACUM- Derived from Developing A curriculum, DACUM is an analysis methodology originally developed by Ohio State University for analyzing educational curriculum requirements in a cost-effective and timely manner, and is an approach often used by universities to design educational curriculum and course content.

Data Type- The size and type of a data element. An interpretation applied to a string of bits, such as integer, real, or character.

Database- A collection of interrelated data stored with controlled redundancy to serve one or more applications; the data is stored so that it is independent of programs that use the data; a common and controlled approach is used in adding new data, and in modifying and retrieving existing data within a database.

DMV- Department of Motor Vehicles.

DOT (Department of Transportation)- Coordinates development of uniform standards for reliable electronic information to support CVISN and other CVO services.

DSRC (Dedicated Short Range Communications)- Used to provide data communications between a moving vehicle and the roadside to support the screening process. This is accomplished by means of a transponder (e.g., tag) mounted in the cab of the vehicle and a reader and antenna installed at the roadside.

EDI (Electronic Data Interchange)- The exchange of routine business transactions in a computer-processable format, covering such traditional applications as inquiries, planning, purchasing, acknowledgments, pricing, order status, scheduling, test results, shipping and receiving, invoices, payments and financial reporting.

EFT- (Electronic Funds Transfer) - An electronic mechanism which allows for transfer of funds from one bank to another. For example, for electronic credentialing one option is to pay for your credentials by transferring money from your bank to the credentialing agency's bank via EFT.

Electronic Clearance - The process that allows commercial vehicles, whether operating intrastate or interstate, to pass a check point (e.g., weigh station) at mainline speeds without stopping to be checked for proper credentials, weight, and safety status.

Electronic Screening - An ITS/CVO Program Area which includes programs and services designed to facilitate the verification of size, weight, and credential information including automated screening and clearance of commercial vehicles and international electronic border clearance.

Electronic Trip Recorders- Also known as onboard computers, these recorders automatically monitor and record information on the performance of the vehicle and/or driver.

Enforcement Officers and Commanders- Includes any State or local law enforcement officers and commanders with responsibility for commercial vehicle operations such as highway patrol, state police, etc.

Fedwire- The Federal Reserve funds transfer system. Fedwire is used for transferring reserve account balances of depository institutions and government securities.

FHWA (Federal Highway Administration)- The lead Federal agency for the ITS/CVO program.

FHWA GOE (Federal Highway Administration General Operating Expenditures)- Funds are available for research and development, field operational tests, architecture and standards evaluation, and program system support. Approximately \$34.7 million total spent on ITS/CVO in 1997.

GPS (Global Positioning System)- A system which locates vehicles using trilateration from multiple satellite-based transmitters

HazMat- Hazardous Materials.

Help, Inc.- (Heavy Vehicle Electronic License Plate Inc.) A non-profit partnership between motor carriers and government agencies in eleven western states.

IBC- International Border Crossing

ICC- Interstate Commerce Commission

IFTA- International Fuel Tax Agreement

IM (Interstate Maintenance)- ITS/CVO projects in interstate construction zones, such as weigh station upgrades and traffic management systems, may be eligible for this funding.

Incident Management Projects- Activities to enable more rapid detection , response, and clearance of incidents from highways, and efforts to spread information about the incident to encourage drivers to seek alternate routes and reduce traffic congestion.

Interstate Applications- Via Internet browser, access governmental or private web sites to apply for credentials and perform other Commercial Vehicle-related functions.

Interstate Highway- A traffic way on the Interstate System.

Interstate Motor Carrier- A motor carrier engaged in interstate commerce whose vehicle(s) transports property or passengers between or through two or more states or other jurisdictions (see "Jurisdiction").

Interstate Operation- Vehicle movement between or through two or more jurisdictions.

Intrastate Motor Carrier- A motor carrier whose vehicle(s) transports property or passengers from one point within a jurisdiction to another point within the same jurisdiction, excluding interstate movements.

Intrastate Operation- Vehicle movement from one point within a jurisdiction to another point within the same jurisdiction.

Intelligent Transportation System (ITS)- Transportation systems which utilize information, communication, sensor, and control technologies to achieve improved levels of performance and safety on America's highways.

IRP- International Registration Plan

ISTEA (Intermodal Surface Transportation Efficiency Act)- Passed by Congress in 1991 and calls for the creation of an economically efficient and environmentally sound transportation system that will move people and goods in an energy efficient manner and will provide the foundation for a competitive American transportation industry.

ITDS- International Trade Data System

ITS (Intelligent Transportation Systems)- Intelligent Transportation Systems integrate advanced computer information processing, communications, sensors, and electronics technologies and management strategies to increase the safety and efficiency of the surface transportation system.

ITS America - The only Congressionally-mandated, national public/private organization established to coordinate the development and deployment of Intelligent Transportation Systems (ITS) in the United States. ITS America's members include federal, state, local and foreign government agencies, national and international corporations involved in the development of ITS, universities, independent research organizations, and public interest groups.

ITS/CVO (Intelligent Transportation Systems/Commercial Vehicle Operations)- The ITS/CVO program is a voluntary effort involving public and private partnerships focused on improving highway safety and motor carrier productivity through the use of technology. The Federal Highway Administration is the lead Federal agency for the program and the Office of Motor Carrier's ITS/CVO Division is directly responsible for oversight of the program.

ITS/CVO Mainstreaming Initiative- The Mainstreaming initiative is intended to organize and manage ITS/CVO deployment and communicate the ITS/CVO program to all stakeholders to gain support and participation. Mainstreaming efforts are underway in more than 35 states.

ITS/CVO Program Management- The individuals with overall ITS/CVO program management responsibilities, including Federal, State or Private organizations.

ITS/CVO Technical Project Management- Individuals with management responsibility for technical aspects of ITS/CVO implementation, including Federal, State, and Private organizations.

ITS/CVO Technical Design and Implementation- Individual with responsibility for the design and implementation of ITS/CVO technology.

ITS/CVO Technical Support- Individuals with responsibility for technical support to the implementation of ITS/CVO technology.

ITS/CVO Systems Design and Integration- Individuals with responsibility for the design and integration of systems for ITS/CVO implementation.

ITS Deployment Incentive Funds- Proposed Federal funding source for deployment grants.

JPO (Joint Program Office for Intelligent Transportation Systems)- Coordinates ITS activities of all Department of Transportation modal administrations.

Jurisdiction- Jurisdiction means a state territory, or possession of the United States, the District of Columbia, or a state, province, or territory of a country.

LPR SSWIM- License Plate Reader Slow Speed Weigh In Motion

MACS- Advantage CVO Maintime Automated Clearance System.

MAPS (Multijurisdictional Automated Preclearance System)- A public-private partnership between government and the trucking industry in Idaho, Oregon, Utah, and Washington. MAPS jurisdictions are building compatible systems for electronic screening and “one-stop shopping”.

MCMIS (Motor Carrier Management Information System)- A federal agency which collects and stores roadside inspection data.

MCSAP (Motor Carrier Safety Assistance Program)- A grant program established to assist with state enforcement of safety, size, and weight regulations with goals of reducing commercial motor vehicle crashes. This program represents a key funding source for implementing ITS/CVO safety assurance projects.

Motor Carrier- A person (an individual, partnership, association, corporation, business trust, or any other organized group of individuals) which is responsible for the safety fitness of a commercial motor vehicle engaged in commerce on roads and highways.

Motor Vehicle- Any vehicle, machine, tractor, trailer or semitrailer propelled or drawn by mechanical power and used upon the highways in the transportation of passengers or property.

MPO- Metropolitan Planning Organization.

MVA- Motor Vehicle Administration.

NATAP- North American Trade Automation Prototype

NCIC- (National Crime Information Center)

NHS (National Highway System)- ITS/CVO operational improvements eligible for NHS funding include traffic surveillance and control equipment, motorist information systems, and incident management programs. Electronic screening systems may also qualify for NHS funding.

NIER- National Institute for Environmental Renewal.

NLETS- National Law Enforcement Telecommunications System

NMVTIS (National Motor Vehicle Titling Information System)-The National Motor Vehicle Title Information System (NMVTIS) is an information-sharing system required by the Anti-Car Theft Act of 1992, enacted to deter trafficking of stolen vehicles by strengthening law enforcement against auto theft, combating automobile title fraud, preventing "chop shop" related thefts, and inspecting exports for stolen vehicles.

O & M- Operations and Maintenance

OMC (Office of Motor Carriers)- This is a division of the U.S. Department of Transportation's (USDOT) Federal Highway Administration (FHWA). OMC is responsible for issues concerning the nation's motor carrier industry and is organized as follows:

- Headquarters - OMC's main office is at the USDOT building in Washington, D.C.
- Regional - There are nine OMC regions in the United States. Regional offices report to headquarters.
- Division - Each state has a division office which works closely with state motor carrier safety and registration officials. Division offices report to the Regional offices.

OOS- Out of Service.

OS/OW- Oversize/Overweight Permits

One-Stop Shopping- Refers to the ability to obtain all required tax and regulatory credentials from a single source.

Open Standards- Technology standards for each ITS/CVO technology that define requirements and design and are available to all ITS/CVO stakeholders for use in the design and implementation of ITS/CVO technology.

PASS (Port of Entry Advanced Sorting System)- An operational test of WIM, AVI, AVC, OBC, and two way communication systems to pre-clear trucks on mainline I-5 at Ashland (Oregon) port of entry.

PrePass™ - A sophisticated intelligent transportation system that electronically identifies subscribing commercial vehicles, verifies state-required operating credentials and checks both axle and gross weight as commercial vehicles bypass designated weigh stations. The system is being implemented in California, New Mexico, Arizona, and Wyoming.

PRISM - Performance and Registration Information Systems Management (Formerly CVIS).

Process- A repetitive, well-defined set of logical tasks that support one function, can be defined in terms of inputs and outputs, and have a definable beginning and end. Processes can be decomposed into processes and are triggered by an event and carried out by a business segment to achieve a stated purpose. A low-level process may be replicated across the business segment.

PUC- Public Utility Commission

R & D- Research and Development.

Regional Champion- A full-time program coordinator hired by regional forums to facilitate the work of the forum and explain ITS/CVO services to administrators, legislators, motor carriers, and the general public.

Regional Forum- There are seven regional forums which correspond to major “trucksheds” which are defined by freight generation and truck traffic volumes. They are responsible for providing policy and program direction for their state programs. Each forum hires a regional champion to facilitate the work of the forum.

Regulated Motor Carrier- A carrier subject to economic regulation by the Interstate Commerce Commission.

Road- That part of a traffic way which includes both the roadway and any shoulder alongside the roadway.

Roadside- The part of the traffic way between the outer edge of the shoulder and the edge of the traffic way; off the road, but inside the traffic way and not part of the median.

Roadside Inspection- An inspection of a commercial vehicle or driver that occurs at the roadside.

Roadway- That part of a traffic way designed, improved, and ordinarily used for motor vehicle travel or, where various classes of motor vehicles are segregated, that part of a traffic way used by a particular class. Separate roadways may be provided for northbound and southbound traffic or for trucks and automobiles. Bridle paths and bicycle paths are not included in this definition.

SAFER (Safety and Fitness Electronic Records)- An on-line system that will be available to users over a nationwide data network which will return a standard carrier safety fitness snapshot or record to the requester within a few seconds.

SAFESTAT- a performance-based program to measure a motor carrier's safety performance and to determine when an on site review of a carrier's operation is necessary.

Safety Assurance- An ITS/CVO Program Area which includes programs and services designed to assure the safety of commercial drivers, vehicles, and cargo. These include automated roadside safety inspections and carrier reviews, safety information systems, and on-board safety monitoring.

Safety Inspectors- Includes any individual responsible for inspection of commercial vehicles whether contractor or state personnel.

SafetyNet- A distributed system for managing safety data on both interstate and intrastate motor carriers and for the Federal and State offices to electronically exchange data on interstate carriers with MCMIS.

SafeVUE (SAFER and CVIEW Visual User Environment)- Carriers will be able to retrieve own snapshots and records generated by SAFER and CVIEW systems.

SEA- Safety Evaluation Area.

SENTRI- Secure Electronic Network for Travelers' Rapid Inspection

SIB (State Infrastructure Bank)- A pilot program established in 1995 to assist participating states with ITS/CVO projects.

Smart Card- Plastic cards with an embedded integrated circuit chip containing memory and microprocessor.

SME- Subject Matter Experts- those individuals possessing unique expertise regarding technology or implementation of ITS/CVO.

Snapshot- A packet of safety data which can be made available at roadside inspection stations via SAFER and/or CVIEW. Snapshots contain safety information on carriers, vehicles, and drivers.

SPR (State Planning and Research)- Technical and organizational ITS/CVO activities may be eligible for this program.

Stakeholders/Users- Including but not limited to Shippers, State Agency Managers and Administrators, and others not included in other specific user groups.

STP (Surface Transportation Program)- ITS/CVO activities eligible for STP funding may include highway safety programs, planning activities, and capital and operating costs for traffic management facilities and programs.

System- A group of interacting, interrelated, interdependent elements forming a complex whole to accomplish some function. Some examples include an automated roadside safety inspection process, on-board cargo monitoring system, an electronic credentialing system.

Technology- The application of science and/or engineering which results in products such as computers, wireless communications, databases and networks, sensors, portable diagnostic devices, etc.

Transparent Borders- The ability of commercial vehicles to travel unimpeded across state borders.

Transponder- An electronic tag mounted in a motor vehicle that has electronically stored information that can be retrieved by a roadside reader.

Truck- A motor vehicle designed to carry an entire load. It may consist of a chassis and body, a chassis, cab and body, or it may be of integral construction so that the body and chassis form a single unit.

Truck Combination- A truck consisting primarily of a transport device which is a single-unit truck or truck tractor with one or more attached trailers.

Truck Tonnage- The weight of freight, measured in tons, transported by a truck.

Truck Tractor- A motor vehicle consisting of a single motorized transport device designed primarily for drawing trailers.

Trucking and Motor Coach Industry- Includes all trucking operators and drivers and motor coach or busing operations for commercial vehicle operations on the highways.

UCR (Unified Carrier Register)- The state component of the carrier registration system.

VAN- (Value Added Network) - The Value-Added Network is a communications facility which transmits, receives, and stores EDI messages. This network can be considered as an "electronic mailbox," where business information is passed between users.

VIN- Vehicle Identification Number.

VMS- Variable Message Sign

VMT- Vehicle Miles Traveled.

VRC- Vehicle to Roadside Communication

WIM (Weigh-In-Motion)- Measures dynamic axle weight at highway or slower speeds. Weigh-In-Motion refers to various technologies that enable vehicle weights to be determined without the need for a vehicle to physically stop on a scale.